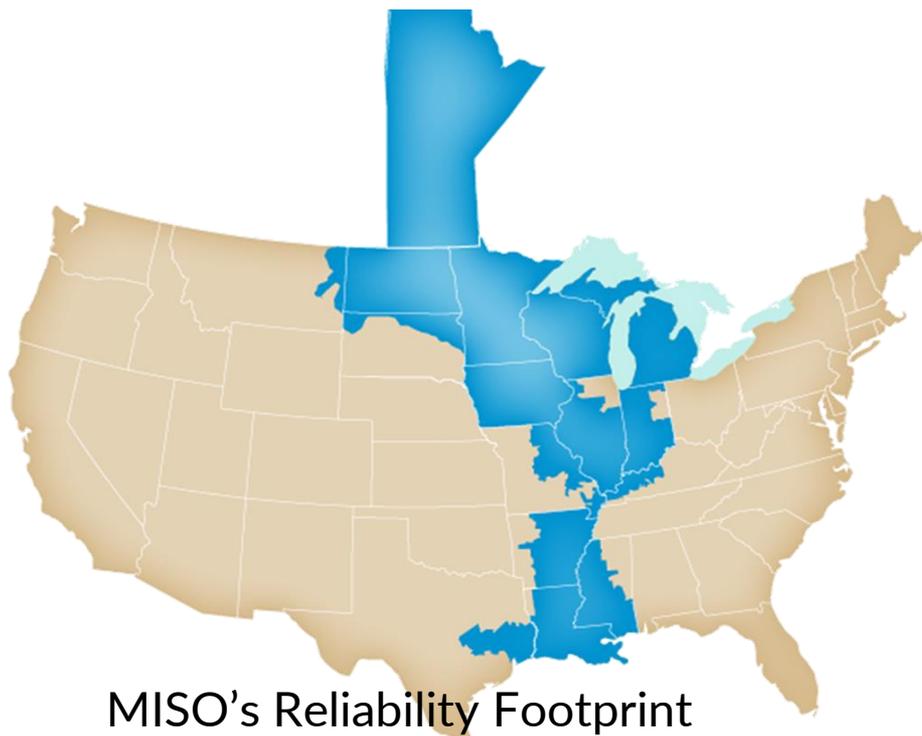




*Indiana Utility
Regulatory Commission
2022 Summer
Reliability Forum*

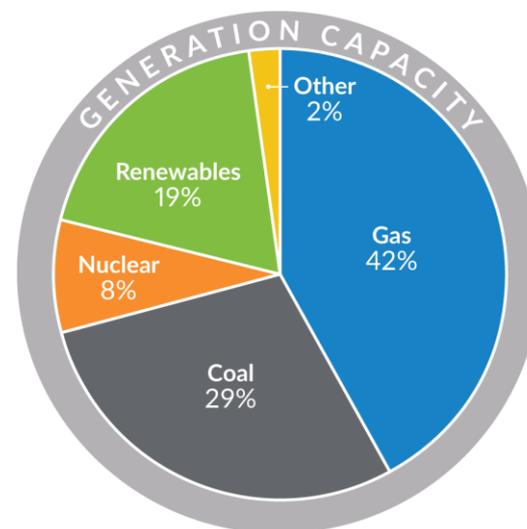
April 5th , 2022

MISO is an independent, not-for-profit Regional Transmission Organization (RTO) serving 15 U.S. states and one Canadian province



MISO by the numbers

High Voltage Transmission	65,800 miles*
Generation Capacity	184,287 MW
Peak Summer System Demand	127,125 MW
Customers Served	42 Million



Summer Readiness, 2022, At-A-Glance

- Planning Resource Auction available later in April
- MISO Summer Readiness meeting to be held on afternoon of April 28th.
- Expected challenges this summer
 - Continued fleet transition
 - Tightening environmental regulations
 - Coal supply chain
 - Non-fuel consumables supply chain

MISO Declared Conservative Operations 29 days in 2021

Why?

- 13 Days due to Hurricane Ida (only in the South)
- 7 Days due to Cold Weather
- 9 Days due to Hot Weather

Where?

- 10 Days entire MISO Footprint
- 13 Days Only South
- 6 Days Only North and Central

Max Gen Declarations have become more common over the last 6 years

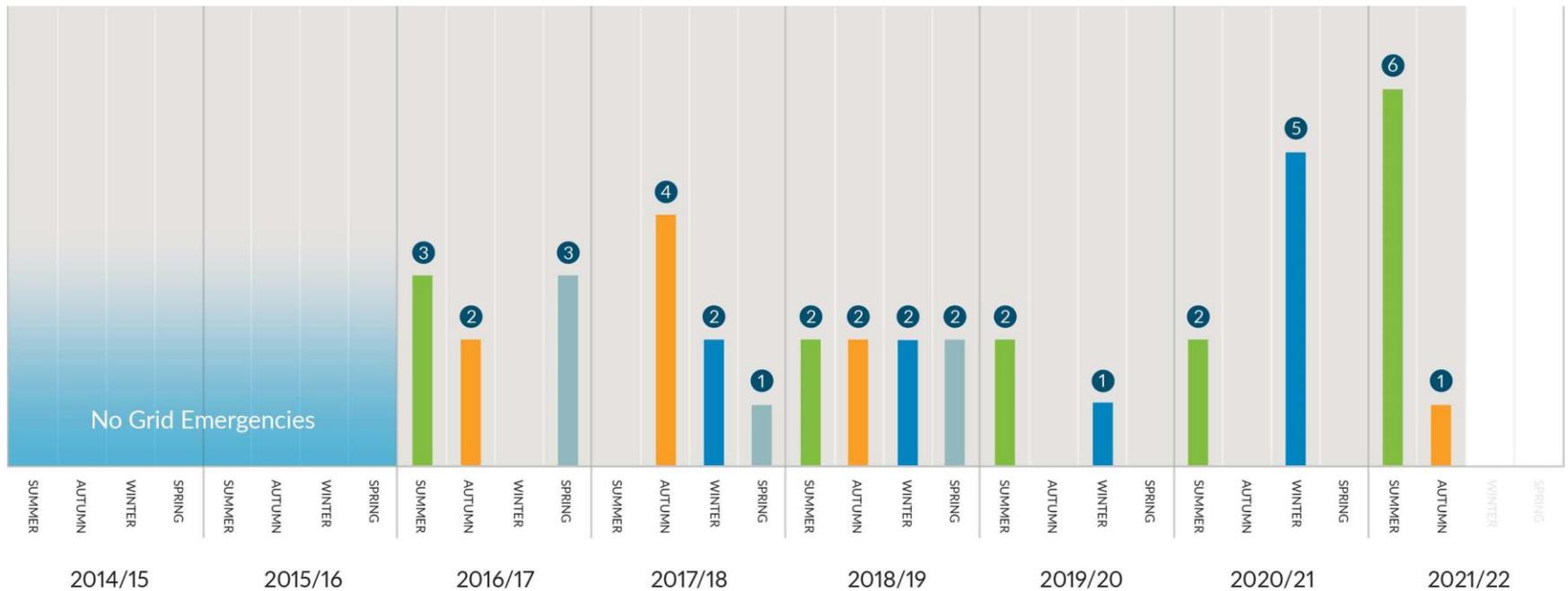
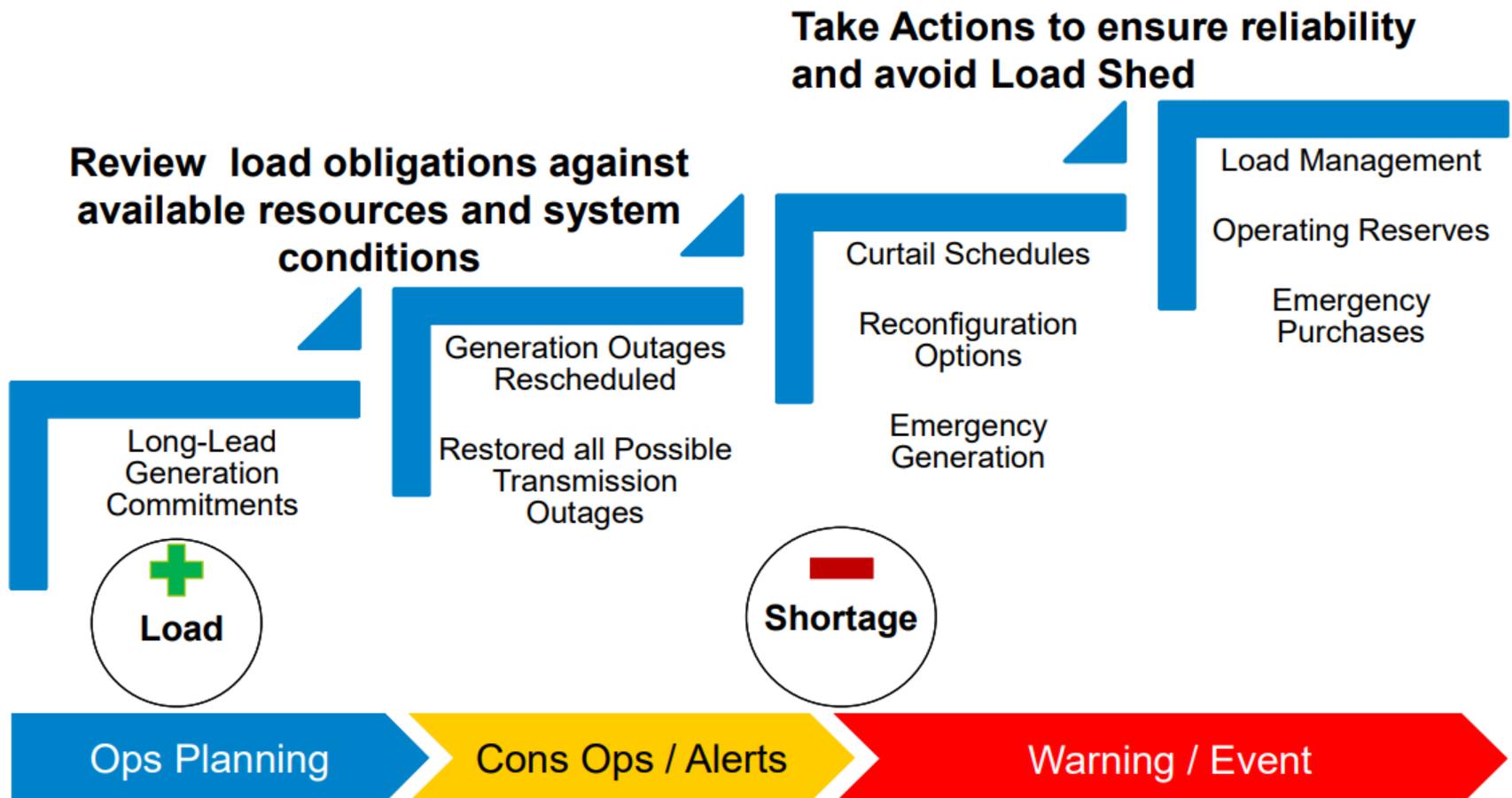


Chart indicates the number of days under a max gen alert, warning or event.

Ensuring Generation Sufficiency



MISO's EOP-002 is the Max Gen procedure during capacity events

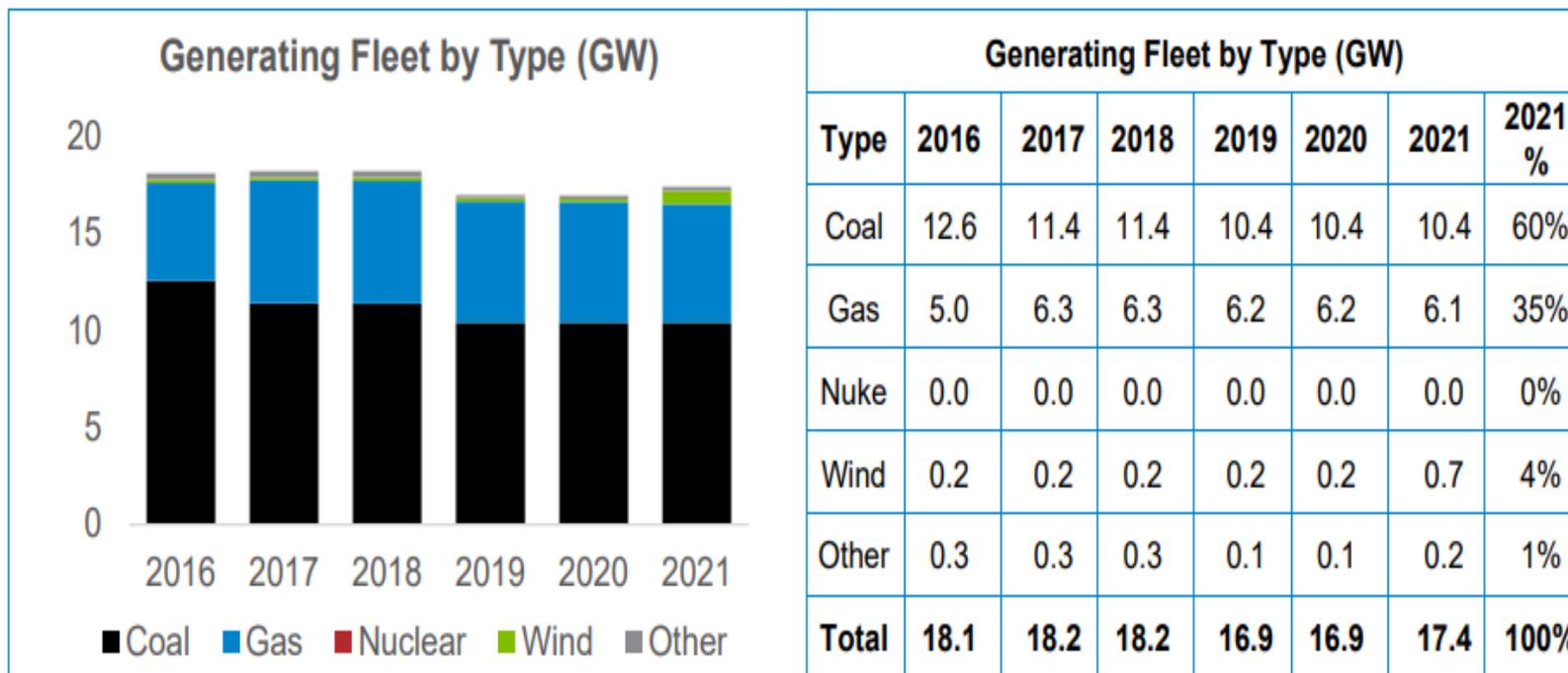


Market Capacity Emergency Procedure Steps

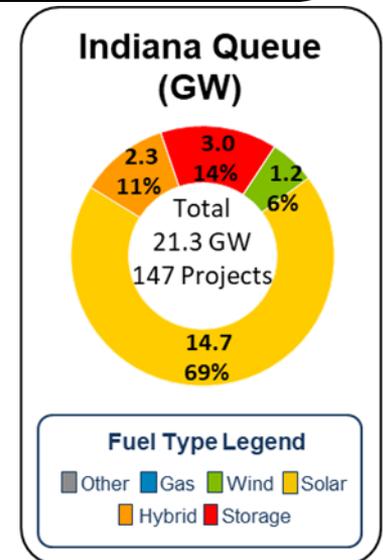
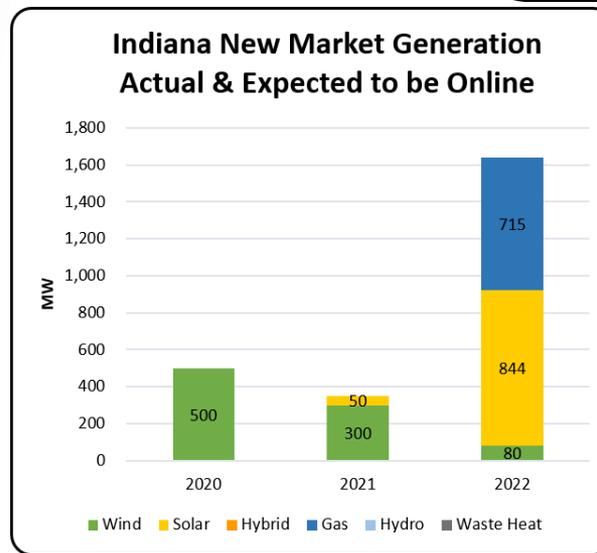
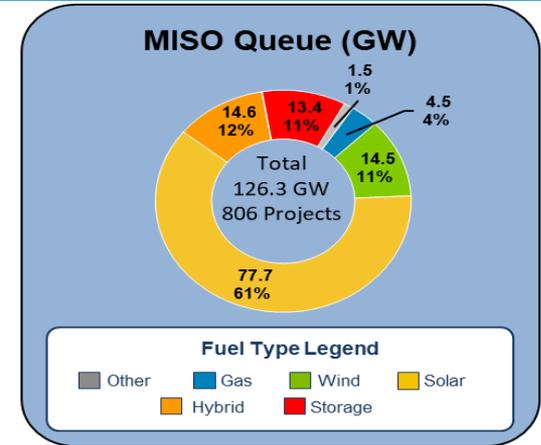
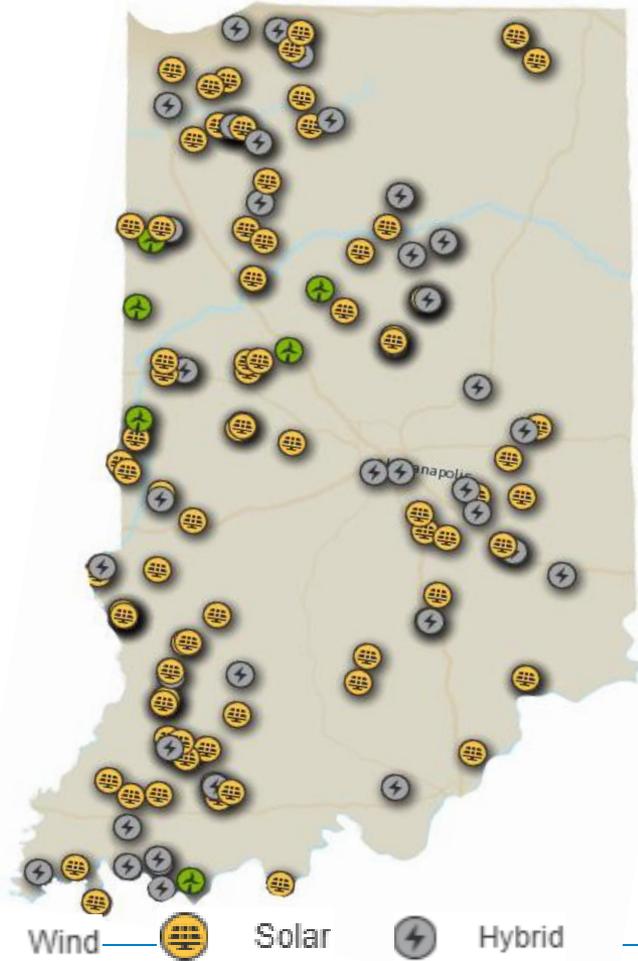
Capacity Advisory	<ul style="list-style-type: none">• Advance notice of forecasted capacity shortage, requests Stakeholders update offer data
Alert	<ul style="list-style-type: none">• Define boundaries/suspend maintenance, set Emergency Pricing Tier 0 Offer Floor
Warning	<ul style="list-style-type: none">• Schedule in External Resources, Curtail export transactions, Reconfiguration, and set Emergency Pricing Tier 1 Offer Floor
Step 1	<ul style="list-style-type: none">• Commit Emergency Resources, Declare NERC EEA 1, Activate Emergency Limits
Step 2	<ul style="list-style-type: none">• Declare NERC EEA 2, Implement LMRs, LMMs Stage 1, Commit EDR Resources, Emergency Energy Purchases, Public Appeals, and set Emergency Pricing Tier 2 Offer Floor
Step 3	<ul style="list-style-type: none">• Utilize Operating Reserves, and LMMs Stage 2
Step 4	<ul style="list-style-type: none">• Reserve Call and Emergency Reserve Purchases
Step 5	<ul style="list-style-type: none">• Declare NERC EEA 3, Firm Load Shed, and set LMPs and MCPs to the VOLL
Termination	<ul style="list-style-type: none">• Max Gen and, possibly, Capacity Advisory Termination

Capacity Emergency Procedure

Indiana's Resource Mix in MISO



Generator requests in Indiana are representative of the larger queue and all include some type of renewable fuel source



MISO reviewed and approved over 10GW of generator suspension or retirements in and around Indiana over the last few years with no need for new transmission

- All market generators within MISO seeking retirement/suspension must submit a request to MISO via Attachment Y of the Tariff
 - MISO reviews requests for reliability impact
 - If reliability issues exist, mitigation is determined up to including requiring the retiring unit remain online as a System Support Resource (SSR)
- No recent retirement/suspension requests in and around Indiana have identified any reliability issues requiring mitigation

